1 Identification

- **Product identifier**
  - **Trade name:** Custom Standard
  - **Part number:** CUS-3086
  - **Application of the substance / the mixture** Laboratory chemicals

- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:** ULTRA Scientific, Inc.
    250 Smith Street
    North Kingstown, RI 02852
    USA

- **Information department:**
  - Telephone: (401) 294-9400
  - Fax: (401) 295-2300
  - E-mail: regulatory@ultrasci.com
  - **Emergency telephone number:**
    US: (800) 424-9300
    Outside US: (703) 527-3887

2 Hazard(s) identification

- **Classification of the substance or mixture**
  - GHS08 Health hazard
  - Carc. 1A H350 May cause cancer.

  GHS07

  Acute Tox. 4 H302 Harmful if swallowed.
  Acute Tox. 4 H312 Harmful in contact with skin.
  Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Label elements**
  - **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
  - **Hazard pictograms**
    - GHS07
    - GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**
  - dichloromethane
  - DNOC
  - 2,4-dinitrophenol
  - dimethylnitrosoamine
  - 3,3'-dichlorobenzidine
  - aniline

(Contd. on page 2)
Trade name: Custom Standard

- **Hazard statements**
  Harmful if swallowed or in contact with skin.
  May cause an allergic skin reaction.
  May cause cancer.

- **Precautionary statements**
  Obtain special instructions before use.
  Do not handle until all safety precautions have been read and understood.
  Avoid breathing dust/fume/gas/mist/vapors/spray.
  Wash thoroughly after handling.
  Do not eat, drink or smoke when using this product.
  Contaminated work clothing must not be allowed out of the workplace.
  Wear protective gloves/protective clothing/eye protection/face protection.
  IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
  IF ON SKIN: Wash with plenty of water.
  IF exposed or concerned: Get medical advice/attention.
  Specific treatment (see on this label).
  Rinse mouth.
  If skin irritation or rash occurs: Get medical advice/attention.
  Take off contaminated clothing and wash it before reuse.
  Wash contaminated clothing before reuse.
  Store locked up.
  Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**
  - **NFPA ratings (scale 0 - 4)**
    
    Health = 1
    Fire = 0
    Reactivity = 0
  
  - **HMIS-ratings (scale 0 - 4)**
    
    HEALTH
    [1] Health = *1
    FIRE
    [0] Fire = 0
    REACTIVITY
    [0] Reactivity = 0

  - **Other hazards**
  - **Results of PBT and vPvB assessment**
    - **PBT:** Not applicable.
    - **vPvB:** Not applicable.

---

3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**
  75-09-2 dichloromethane 98.19%
  92-67-1 biphenyl-4-ylamine 0.151%
  92-87-5 benzidine 0.151%
  91-94-1 3,3'-dichlorobenzidine 0.151%
  534-52-1 DNOC 0.151%
  62-75-9 dimethylnitrosoamine 0.151%
  87-86-5 pentachlorophenol 0.151%

(Contd. on page 3)
4 First-aid measures

· Description of first aid measures
  · General information:
    Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
  · After inhalation:
    Supply fresh air and to be sure call for a doctor.
    In case of unconsciousness place patient stably in side position for transportation.
  · After skin contact:
    Immediately wash with water and soap and rinse thoroughly.
  · After eye contact:
    Rinse opened eye for several minutes under running water.
  · After swallowing:
    Immediately call a doctor.
  · Information for doctor:
    · Most important symptoms and effects, both acute and delayed No further relevant information available.
    · Indication of any immediate medical attention and special treatment needed
      No further relevant information available.

5 Fire-fighting measures

· Extinguishing media
  · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
· Special hazards arising from the substance or mixture No further relevant information available.
· Advice for firefighters
  · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.
· Environmental precautions: Do not allow to enter sewers/ surface or ground water.
· Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Dispose contaminated material as waste according to item 13.
  Ensure adequate ventilation.
· Reference to other sections
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.
· Protective Action Criteria for Chemicals

<table>
<thead>
<tr>
<th>PAC-1</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>75-09-2</td>
<td>dichloromethane</td>
<td>200 ppm</td>
</tr>
<tr>
<td>92-67-1</td>
<td>biphenyl-4-ylamine</td>
<td>1.5 mg/m3</td>
</tr>
<tr>
<td>92-87-5</td>
<td>benzidine</td>
<td>0.93 mg/m3</td>
</tr>
<tr>
<td>91-94-1</td>
<td>3,3'-dichlorobenzidine</td>
<td>2.1 ppm</td>
</tr>
<tr>
<td>534-52-1</td>
<td>DNOC</td>
<td>0.6 mg/m3</td>
</tr>
</tbody>
</table>
### 7 Handling and storage

- **Handling:**
  - **Precautions for safe handling:** Ensure good ventilation/exhaustion at the workplace.
  - **Information about protection against explosions and fires:** No special measures required.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**
  - **Requirements to be met by storerooms and receptacles:** No special requirements.
  - **Information about storage in one common storage facility:** Not required.
  - **Further information about storage conditions:** None.
### 8 Exposure controls/personal protection

- **Specific end use(s)** No further relevant information available.

#### Additional information about design of technical systems:
No further data; see item 7.

#### Control parameters

#### Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

<table>
<thead>
<tr>
<th>Chemical</th>
<th>PEL</th>
<th>REL</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-09-2 dichloromethane</td>
<td>Short-term value: 125 ppm&lt;br&gt;Long-term value: 25 ppm&lt;br&gt;see 29 CFR 1910.1052</td>
<td>See Pocket Guide App. A</td>
<td>Long-term value: 174 mg/m³, 50 ppm&lt;br&gt;BEI</td>
</tr>
<tr>
<td>92-67-1 biphenyl-4-ylamine</td>
<td>see 29 CFR 1910.1003</td>
<td>See Pocket Guide App. A</td>
<td>Skin; L</td>
</tr>
<tr>
<td>92-87-5 benzidine</td>
<td>see 29 CFR 1910.1003</td>
<td>See Pocket Guide Apps. A and C</td>
<td>Skin; L</td>
</tr>
<tr>
<td>91-94-1 3,3'-dichlorobenzidine</td>
<td>see 29 CFR 1910.1003</td>
<td>and its salts; See Pocket Guide App.A</td>
<td>Skin; L</td>
</tr>
<tr>
<td>534-52-1 DNOC</td>
<td>Long-term value: 0.2 mg/m³&lt;br&gt;Skin</td>
<td>Long-term value: 0.2 mg/m³&lt;br&gt;Skin</td>
<td>Long-term value: 0.2 mg/m³&lt;br&gt;Skin</td>
</tr>
<tr>
<td>87-86-5 pentachlorophenol</td>
<td>Long-term value: 0.5 mg/m³&lt;br&gt;Skin</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Contd. on page 6)
### Trade name: Custom Standard

<table>
<thead>
<tr>
<th></th>
<th>REL</th>
<th>Long-term value: 0.5 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Skin</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TLV</td>
<td>Short-term value: 1* mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Long-term value: 0.5* mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin; BEI; *inhalable fraction+vapor</td>
</tr>
<tr>
<td>205-99-2 benz[e]acephenanthrylene</td>
<td>TLV</td>
<td>L; BEIp</td>
</tr>
</tbody>
</table>

|   | PEL | Long-term value: 19 mg/m³, 5 ppm and Homologues; Skin |
|   | REL | And Homologues; See Pocket Guide App. A |
| 62-53-3 aniline | TLV | Long-term value: 7.6 mg/m³, 2 ppm |
|   |     | Skin; BEI |

### Ingredients with biological limit values:

**75-09-2 dichloromethane**

<table>
<thead>
<tr>
<th>BEI</th>
<th>0.3 mg/L</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Medium: urine</td>
</tr>
<tr>
<td></td>
<td>Time: end of shift</td>
</tr>
<tr>
<td></td>
<td>Parameter: Dichloromethane (semi-quantitative)</td>
</tr>
</tbody>
</table>

**87-86-5 pentachlorophenol**

<table>
<thead>
<tr>
<th>BEI</th>
<th>2 mg/g creatinine</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Medium: urine</td>
</tr>
<tr>
<td></td>
<td>Time: prior to last shift of workweek</td>
</tr>
<tr>
<td></td>
<td>Parameter: Total pentachlorophenol (background)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>5 mg/L</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Medium: plasma</td>
</tr>
<tr>
<td></td>
<td>Time: end of shift</td>
</tr>
<tr>
<td></td>
<td>Parameter: Free pentachlorophenol (background)</td>
</tr>
</tbody>
</table>

**205-99-2 benz[e]acephenanthrylene**

<table>
<thead>
<tr>
<th>BEI</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Medium: urine</td>
</tr>
<tr>
<td></td>
<td>Time: end of shift at end of workweek</td>
</tr>
<tr>
<td></td>
<td>Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)</td>
</tr>
</tbody>
</table>

**62-53-3 aniline**

<table>
<thead>
<tr>
<th>BEI</th>
<th>50 mg/L</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Medium: urine</td>
</tr>
<tr>
<td></td>
<td>Time: end of shift</td>
</tr>
<tr>
<td></td>
<td>Parameter: p-Aminophenol with hydrolysis (background, nonspecific, semi-quantitative)</td>
</tr>
</tbody>
</table>

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Medium: urine</td>
</tr>
<tr>
<td></td>
<td>Time: end of shift</td>
</tr>
<tr>
<td></td>
<td>Parameter: Aniline with hydrolysis (nonquantitative)</td>
</tr>
</tbody>
</table>

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Medium: blood</td>
</tr>
<tr>
<td></td>
<td>Time: end of shift</td>
</tr>
<tr>
<td></td>
<td>Parameter: Aniline released from hemoglobin (nonquantitative)</td>
</tr>
</tbody>
</table>
· Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:
  Keep away from foodstuffs, beverages and feed.
  Immediately remove all soiled and contaminated clothing.
  Wash hands before breaks and at the end of work.
  Store protective clothing separately.
  Avoid contact with the eyes and skin.

· Breathing equipment:
  In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:

   Protective gloves

   The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
   Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
   Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material
  The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:
  Safety glasses

   Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:
  Form: Fluid
  Color: Colorless
  Odor: Like chlorine
  Odor threshold: Not determined.

· pH-value: Not determined.

· Change in condition
  Melting point/Melting range: -95.1°C (°F)
  Boiling point/Boiling range: 40°C (°F)
### 45.2.5 Flash point:
- Not applicable.

### 45.2.6 Flammability (solid, gaseous):
- Not applicable.

### 45.2.7 Ignition temperature:
- 605°C (°F)

### 45.2.8 Decomposition temperature:
- Not determined.

### 45.2.9 Auto igniting:
- Product is not selfigniting.

### 45.2.10 Danger of explosion:
- Product does not present an explosion hazard.

### 45.2.11 Explosion limits:
- **Lower:** 13 Vol %
- **Upper:** 22 Vol %

### 45.2.12 Vapor pressure at 20°C (68 °F):
- 360 hPa (mm Hg)

### 45.2.13 Density at 20°C (68 °F):
- 1.3 g/cm³ (lbs/gal)

### 45.2.14 Relative density:
- Not determined.

### 45.2.15 Vapor density:
- Not determined.

### 45.2.16 Evaporation rate:
- Not determined.

### 45.2.17 Solubility in / Miscibility with Water at 20°C (68 °F):
- 20 g/l

### 45.2.18 Partition coefficient (n-octanol/water):
- Not determined.

### 45.2.19 Viscosity:
- **Dynamic at 20°C (68 °F):** 0.43 mPas
- **Kinematic:** Not determined.

### 45.2.20 Solvent content:
- **Organic solvents:** 98.2 %
- **VOC content:** 0.00 %
- 0.0 g/l / 0.00 lb/gl

### 45.2.21 Solids content:
- 0.0 %

### Other information
- No further relevant information available.

## 10 Stability and reactivity

### Reactivity
- No further relevant information available.

### Chemical stability

### Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.

### Possibility of hazardous reactions
- No dangerous reactions known.

### Conditions to avoid
- No further relevant information available.

### Incompatible materials:
- No further relevant information available.

### Hazardous decomposition products:
- No dangerous decomposition products known.
### 11 Toxicological information

#### · Information on toxicological effects

#### · Acute toxicity:

<table>
<thead>
<tr>
<th>LD/LC50 values that are relevant for classification:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ATE (Acute Toxicity Estimate)</strong></td>
</tr>
<tr>
<td>Oral</td>
</tr>
<tr>
<td>Dermal</td>
</tr>
<tr>
<td>Inhalative</td>
</tr>
</tbody>
</table>

### 75-09-2 dichloromethane

| Oral      | LD50 | 1,600 mg/kg (rat) |
| Dermal    | LD50 | >2,000 mg/kg (rat) |
| Inhalative| LC50/4 h | 88 mg/L |

### 92-67-1 biphenyl-4-ylamine

| Oral      | LD50 | 500 mg/kg (rat) |

### 92-87-5 benzidine

| Oral      | LD50 | 309 mg/kg (rat) |

### 91-94-1 3,3'-dichlorobenzidine

| Oral      | LD50 | 4,740 mg/kg (rat) |

### 534-52-1 DNOC

| Oral      | LD50 | 7 mg/kg (rat) |
| Dermal    | LD50 | 200 mg/kg (rat) |
|           |      | 1,000 mg/kg (rabbit) |

### 62-75-9 dimethylnitrosoamine

| Oral      | LD50 | 37 mg/kg (rat) |
| Dermal    | LD50 | 78 mg/kg (rat) |

### 87-86-5 pentachlorophenol

| Oral      | LD50 | 27 mg/kg (rat) |
| Dermal    | LD50 | 96 mg/kg (rat) |
| Inhalative| LC50/4 h | 355 mg/L |

### 62-53-3 aniline

| Oral      | LD50 | 442 mg/kg (rat) |
| Dermal    | LD50 | 820 mg/kg (rabbit) |
| Inhalative| LC50/4 h | 175 mg/L (mouse) |
|           |      | 3.27 mg/L (rat) |

#### · Primary irritant effect:

- **on the skin**: No irritant effect.
- **on the eye**: No irritating effect.
- **Sensitization**: Sensitization possible through skin contact.

#### · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant
Carcinogenic categories

IARC (International Agency for Research on Cancer)

<table>
<thead>
<tr>
<th>Compound</th>
<th>Carcinogenicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-09-2 dichloromethane</td>
<td>2A</td>
</tr>
<tr>
<td>92-67-1 biphenyl-4-ylamine</td>
<td>1</td>
</tr>
<tr>
<td>92-87-5 benzidine</td>
<td>1</td>
</tr>
<tr>
<td>91-94-1 3,3'-dichlorobenzidine</td>
<td>2B</td>
</tr>
<tr>
<td>62-75-9 dimethylnitrosoamine</td>
<td>2A</td>
</tr>
<tr>
<td>87-86-5 pentachlorophenol</td>
<td>2B</td>
</tr>
<tr>
<td>207-08-9 benzo[k]fluoranthene</td>
<td>2B</td>
</tr>
<tr>
<td>205-99-2 benz[e]acephenanthrylene</td>
<td>2B</td>
</tr>
<tr>
<td>62-53-3 aniline</td>
<td>3</td>
</tr>
</tbody>
</table>

NTP (National Toxicology Program)

<table>
<thead>
<tr>
<th>Compound</th>
<th>Carcinogenicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-09-2 dichloromethane</td>
<td>R</td>
</tr>
<tr>
<td>92-67-1 biphenyl-4-ylamine</td>
<td>K</td>
</tr>
<tr>
<td>92-87-5 benzidine</td>
<td>K</td>
</tr>
<tr>
<td>91-94-1 3,3'-dichlorobenzidine</td>
<td>R</td>
</tr>
<tr>
<td>62-75-9 dimethylnitrosoamine</td>
<td>R</td>
</tr>
<tr>
<td>87-86-5 pentachlorophenol</td>
<td>R</td>
</tr>
<tr>
<td>207-08-9 benzo[k]fluoranthene</td>
<td>R</td>
</tr>
<tr>
<td>205-99-2 benz[e]acephenanthrylene</td>
<td>R</td>
</tr>
</tbody>
</table>

OSHA-Ca (Occupational Safety & Health Administration)

<table>
<thead>
<tr>
<th>Compound</th>
<th>Carcinogenicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-09-2 dichloromethane</td>
<td></td>
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<tr>
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<tr>
<td>62-75-9 dimethylnitrosoamine</td>
<td></td>
</tr>
<tr>
<td>62-53-3 aniline</td>
<td></td>
</tr>
</tbody>
</table>

Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Additional ecological information:

General notes:
Water hazard class 3 (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.
Trade name: Custom Standard

13 Disposal considerations

- Waste treatment methods
  - Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packagings:
  - Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number
  - DOT, IMDG, IATA UN1593

- UN proper shipping name
  - DOT
  - IMDG, IATA Dichloromethane

- Transport hazard class(es)
  - DOT
    - Class 6.1 Toxic substances
    - Label 6.1

- IMDG, IATA
  - Class 6.1 Toxic substances
  - Label 6.1

- Packing group
  - DOT, IMDG, IATA III

- Environmental hazards: Not applicable.

- Special precautions for user
  - Warning: Toxic substances
  - Danger code (Kemler): 60
  - EMS Number: F-A,S-A
  - Segregation groups Liquid halogenated hydrocarbons
  - Stowage Category A

- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.
Trade name: Custom Standard

- **Transport/Additional information:**
  - DOT
  - Quantity limitations
    - On passenger aircraft/rail: 60 L
    - On cargo aircraft only: 220 L
  - Hazardous substance:
    - 1000 lbs, 454 kg

- **IMDG**
  - Limited quantities (LQ): 5L
  - Exempted quantities (EQ)
    - Code: E1
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 1000 ml

- **UN "Model Regulation":**
  - UN 1593 DICHLOROMETHANE, 6.1, III

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **Sara**
    - **Section 355 (extremely hazardous substances):**
      - 534-52-1 DNOC
      - 62-75-9 dimethylnitrosoamine
      - 62-53-3 aniline
  - **Section 313 (Specific toxic chemical listings):**
    - 75-09-2 dichloromethane
    - 92-67-1 biphenyl-4-ylamine
    - 92-87-5 benzidine
    - 91-94-1 3,3'-dichlorobenzidine
    - 534-52-1 DNOC
    - 51-28-5 2,4-dinitrophenol
    - 62-75-9 dimethylnitrosoamine
    - 100-02-7 4-nitrophenol
    - 87-86-5 pentachlorophenol
    - 207-08-9 benzo[k]fluoranthene
    - 205-99-2 benz[e]acephenanthrylene
    - 62-53-3 aniline
  - **TSCA (Toxic Substances Control Act):**
    - 75-09-2 dichloromethane
    - 92-67-1 biphenyl-4-ylamine
    - 92-87-5 benzidine
    - 91-94-1 3,3'-dichlorobenzidine
    - 534-52-1 DNOC
    - 51-28-5 2,4-dinitrophenol
    - 62-75-9 dimethylnitrosoamine
    - 100-02-7 4-nitrophenol
    - 87-86-5 pentachlorophenol
Trade name: Custom Standard

| 65-85-0  | Benzoic acid   |
| 62-53-3  | aniline        |

**Proposition 65**

**Chemicals known to cause cancer:**
- 75-09-2 dichloromethane
- 92-67-1 biphenyl-4-ylamine
- 92-87-5 benzidine
- 91-94-1 3,3'-dichlorobenzidine
- 62-75-9 dimethylnitrosoamine
- 87-86-5 pentachlorophenol
- 207-08-9 benzo[k]fluoranthene
- 205-99-2 benz[e]acephenanthrylene
- 62-53-3 aniline

**Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

**Chemicals known to cause developmental toxicity:**
None of the ingredients is listed.

**Carcinogenic categories**

**EPA (Environmental Protection Agency)**
- 75-09-2 dichloromethane L
- 92-87-5 benzidine A
- 91-94-1 3,3'-dichlorobenzidine A1
- 62-75-9 dimethylnitrosoamine B2
- 87-86-5 pentachlorophenol L
- 207-08-9 benzo[k]fluoranthene B2
- 205-99-2 benz[e]acephenanthrylene B2
- 65-85-0 Benzoic acid D
- 62-53-3 aniline B2

**TLV (Threshold Limit Value established by ACGIH)**
- 75-09-2 dichloromethane A3
- 92-67-1 biphenyl-4-ylamine A1
- 92-87-5 benzidine A1
- 91-94-1 3,3'-dichlorobenzidine A3
- 62-75-9 dimethylnitrosoamine A3
- 87-86-5 pentachlorophenol A3
- 205-99-2 benz[e]acephenanthrylene A2
- 62-53-3 aniline A3

**NIOSH-Ca (National Institute for Occupational Safety and Health)**
- 75-09-2 dichloromethane
- 92-67-1 biphenyl-4-ylamine

(Contd. on page 14)
GHS label elements: The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:

- **Signal word**: Danger
- **Hazard-determining components of labeling:**
  - dichloromethane
  - DNOC
  - 2,4-dinitrophenol
  - dimethylnitrosoamine
  - 3,3'-dichlorobenzidine
  - aniline

**Hazard statements**
Harmful if swallowed or in contact with skin.
May cause an allergic skin reaction.
May cause cancer.

**Precautionary statements**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
IF ON SKIN: Wash with plenty of water.
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see on this label).
Rinse mouth.
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Wash contaminated clothing before reuse.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

**National regulations:**

**Additional classification according to Decree on Hazardous Materials:**
Carcinogenic hazardous material group III (dangerous).

**Information about limitation of use:**
Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.
Exceptions can be made by the authorities in certain cases.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.
16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Date of preparation / last revision: 09/01/2017 / -
- Abbreviations and acronyms:
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - ACGIH: American Conference of Governmental Industrial Hygienists
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - NFPA: National Fire Protection Association (USA)
  - HMIS: Hazardous Materials Identification System (USA)
  - VOC: Volatile Organic Compounds (USA, EU)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - NIOSH: National Institute for Occupational Safety
  - OSHA: Occupational Safety & Health
  - TLV: Threshold Limit Value
  - PEL: Permissible Exposure Limit
  - REL: Recommended Exposure Limit
  - BEI: Biological Exposure Limit
  - Acute Tox. 4: Acute toxicity – Category 4
  - Skin Sens. 1: Skin sensitisation – Category 1
  - Carc. 1A: Carcinogenicity – Category 1A